EcoStarter Touch

User manual

Version 1.1

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INFORMATION

IMPORTANT SAFETY INSTRUCTIONS

1. Please read and keep this user manual.
2. Pay attention to all warnings.
3. Do not use this device near water.
4. EcoStarter Touch may be cleaned with a soft cotton or microfibre cloth. Do not use water or other liquid cleaning agents.
5. Follow installation directives.
6. Only use accessories recommended by Sikom or your dealer.
7. Entrust all maintenance and service to your dealer or to Sikom. Service is required when the device is damaged, e.g. if the power adapter or the plug is damaged, if liquid has been spilled or some other foreign body has entered into the housing, or if the device has been exposed to rain or humidity and does not operate correctly.

Humid environment

The device must not be exposed to water. Do not place it in wet environments or in places where it may be exposed to water. The product is designed for indoor use only.

Verify the mains voltage before use

The product is designed for use with 100V to 240V AC power. When in doubt about the voltage requirements of EcoStarter Touch or about the mains voltage in your area, it is recommended that you ask your dealer before powering on the device.

Handle the electric cable carefully

Never pull the mains plug by pulling the cable from the socket; grip the plug itself to this end.

Do not open the product

Opening the product voids any warranty. The product shall be sent to an authorized repair shop or to Sikom in case of malfunctioning. Should the product be exposed to water, immediately unplug it from the mains, disconnect the internal battery and contact your dealer. The battery casing cover may however be opened: please refer to the relevant instructions for changing the battery in this manual.

Positioning the product

- Mount the device onto a wall or some other firm support.
- Avoid placing it near power or radio-emitting sources, as they may emit noise which limits its radio coverage.
- Do not place the device inside a steel locker or similar, as this will halt the radio signals.
- Avoid humid places.

Cleaning

EcoStarter Touch may be cleaned with a soft cotton or microfibre cloth. Do not use water or other liquid cleaning agents.

INTRODUCTION

We thank you warmly for purchasing this GSM-operated remote control system, which will bring you more comfort, pleasure, security and new energy saving opportunities!

EcoStarter Touch is a device which enables you to control lights, heating and alarms through wireless communication. EcoStarter Touch is simply operated via the built-in touchscreen and its graphical user interface. A SIM-card has to be installed for operating EcoStarter Touch using SMS messaging or Internet-based steering services (we invite you to discover the new offers on www.ecostarter.com).

HOW TO USE ECOSTARTER TOUCH

By means of SMS messaging, EcoStarter Touch enables you to control and monitor appliances, as well as to regulate temperatures remotely, notably by relying on its very convenient remote-controlled thermostatic regulation. You may also receive status messages on demand, where EcoStarter tells you which heaters, lights and alarms are currently turned on. You may even be warned whenever the temperature falls and frost threatens, or in case of water or gas leakage, or else when a burglary, fire or other alarm goes off.

All of these functions can be configured per SMS or locally on the touchscreen. The chapter on operating the device provides further details about the possibilities.

Communication between EcoStarter Touch (the central unit) and its wireless extensions takes place on a bidirectional radio frequency (RF) channel. This means that EcoStarter Touch will receive a confirmation of execution after each command. If, for instance, you send an SMS to EcoStarter Touch ordering it to switch on a given wireless extension and to return its subsequent status, you will receive an SMS message back indicating whether it was actually switched on or not.

For remote operation to be possible, EcoStarter Touch needs GSM network coverage. The provided GSM antenna enables it to work correctly under normal coverage conditions. If the coverage is weak, it is advisable to connect an external GSM antenna. The main screen of EcoStarter Touch shows the strength of the GSM signal.

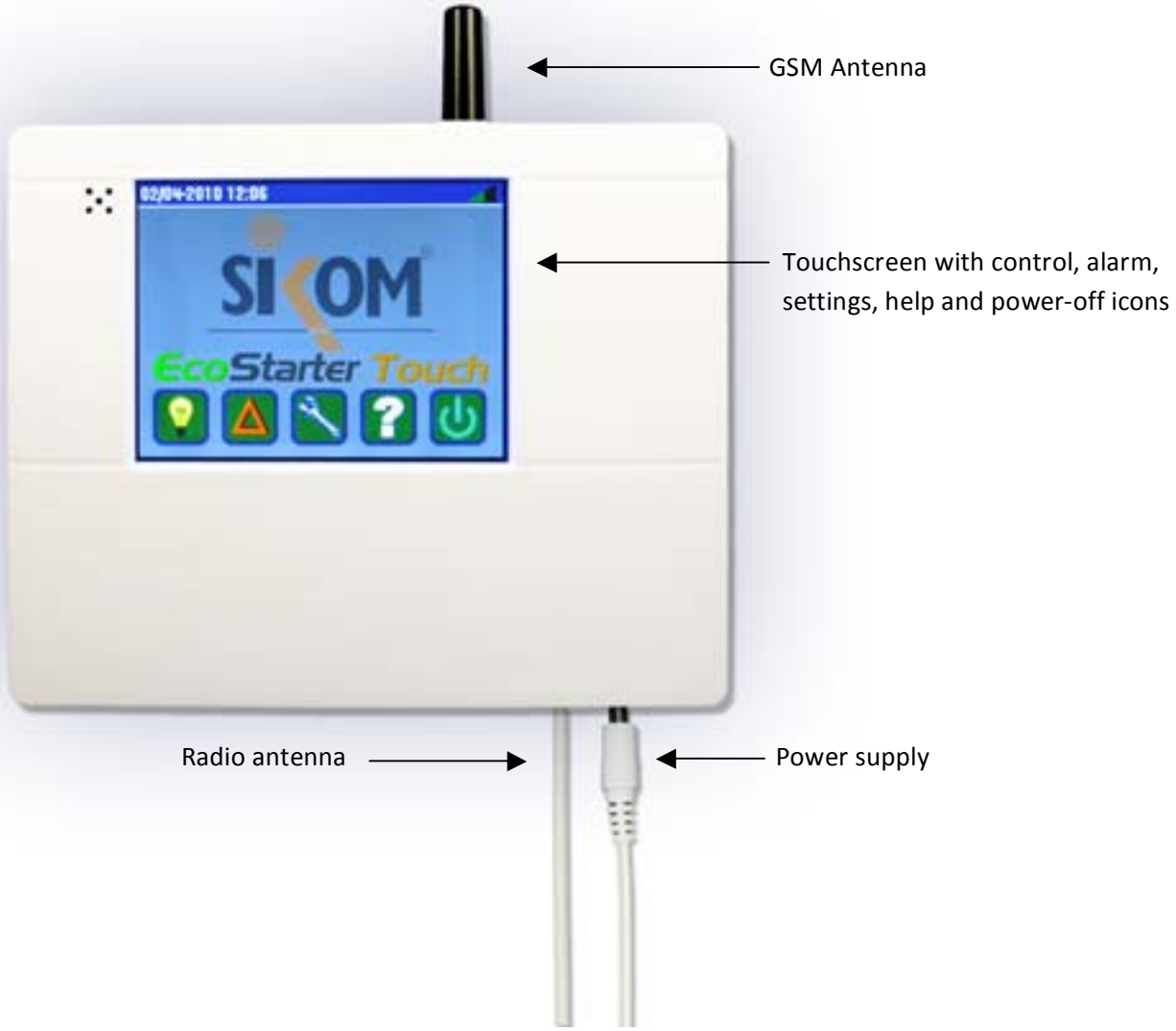
EcoStarter Touch should be positioned so as to optimize the radio coverage towards all receivers. The range of the radio signals is of up to 40-80m, but depends on the number and nature of any walls separating the central unit and each of its wireless extension; armed concrete will weaken the signal far more than a wooden wall. During setup, you may use EcoStarter's "Ping" function to check that all receivers are actually covered by the radio signal.

FURTHER INFORMATION

This manual is intended as a in introduction to the EcoStarter Touch system. This system can become very comprehensive, depending on the amount of controlled equipment. Further explanations and updated information will therefore progressively be made available on www.ecostarter.com. In need of information, please consult our website or ask your dealer. And remember that EcoStarter Touch provides help screens explaining its numerous functions.

Sikom AS and its distributors assume no responsibility for any errors that may appear in this manual. Information contained herein is subject to change without notice. The latest version of this manual will always be available on our website.

BEFORE YOU USE YOUR ECOSTARTER TOUCH



MOUNTING ONTO THE WALL

EcoStarter Touch may be mounted onto a wall by means of two screws with a head diameter of 6 mm. Screw centres shall be distant by 10 cm. Tighten the screws until there is a space of about 3 mm between the wall and the screw head. Then thread the device onto the screws and pull it gently down a few millimeters.

INSTALLATION AND REGISTRATION OF WIRELESS EXTENSIONS

Please refer to the instructions enclosed with the additional equipment.

SIM CARD AND SUBSCRIPTION

All remote communication with EcoStarter Touch takes place through the GSM network. In order to receive SMS command messages, it needs to have a SIM card installed, just like any standard mobile phone. SIM cards from most mobile phone operators will do (be they pre-pay or subscription based) as long as they enable SMS messaging and allow the PIN code to be deactivated.

NB: pre-pay solutions require you to follow up the credit utilization and will usually need to be recharged with credit at least once a year.

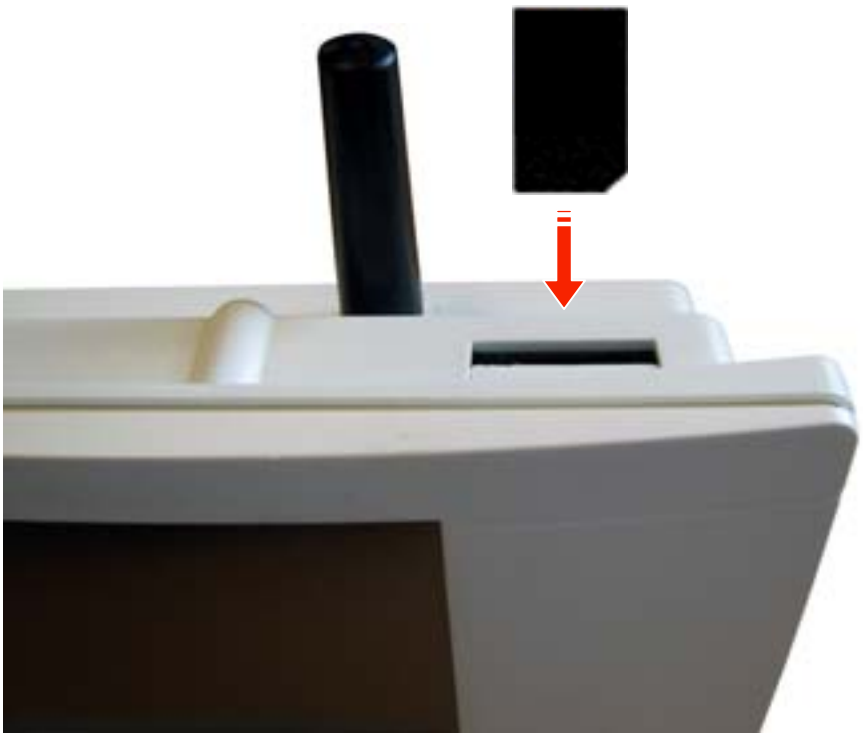
An additional subscription will be required for operating EcoStarter Touch via Internet. We invite you to discover the new offers available on www.ecostarter.com.

PREPARATION OF SIM CARD

EcoStarter Touch requires the PIN code of the SIM card to be deactivated. This has to be done by temporarily inserting the SIM card into a normal GSM mobile phone and entering the phone security settings menu in order to turn off the PIN code of the SIM card. The exact procedure will be described in the manual of your mobile phone. NB: if that mobile phone is locked to a given operator, it will not accept the new SIM card unless it comes from the same operator, even if it's inserted temporarily just for deactivating the PIN code. It will then be necessary to borrow an appropriate phone instead, or to ask a phone shop to deactivate the PIN code for you.

INSERTING THE SIM CARD

Always ensure that EcoStarter Touch is entirely powered off when manipulating the SIM card. Insert the card as shown below, with the notch in the bottom right corner and the gold contacts facing the wall. Gently push the card until it clicks in place. If later you wish to withdraw the SIM card, gently push it inwards until a click signals that the locking mechanism is open. You may then pull the card out of the slot.



EXPLANATION OF ICONS

Below you will find the explanation of the most usual graphical symbols (icons) found on the screen of EcoStarter Touch.

OK icon. Press this icon for validating a new setting or for leaving a given screen. Certain functions will be executed as soon as a button is pushed, whereas other will need the OK icon to be pressed. E.g. when adjusting the clock, the OK icon has to be pressed once all fields have been set. On the other hand, when operating wireless extensions, the OK icon is only used for leaving the control screen.

CANCEL icon. Press this icon to cancel the current operation or to escape from a given screen.

HELP icon. Many functions feature on-screen help pages. Take advantage of these in addition to the present manual for a better understanding of available functions.

Buttons for browsing through text and parameters.

STARTUP

Once the battery has been installed (cf. page 31 for an explanation on how to install the battery) and a SIM card inserted, the unit may be powered on. To this end, first connect the small cylinder-formed plug to the unit, and then plug the mains power plug into a power outlet. EcoStarter Touch will start up and display instructions on the screen. At first, the unit will be completely reset. Instructions will appear in English, but you may easily switch to another language by proceeding to the setup screen. The personal access code is factory set to 1234.

Procedure for preparing the product for use:

1. **Change interface language (if necessary).**

Enter the setup screen and activate the language selection screen. When you select a new language, the unit has to restart to enable the change.

2. **Register all enclosed wireless equipment.**

The *registration* is an operation by which a wireless peripheral is identified for the first time by the central unit it will depend on. More precisely, EcoStarter Touch has to know which wireless peripherals are under its authority, in order to prevent any confusion between your own and any similar equipment in your neighbourhood. Moreover, it enables you to give a meaningful name to the equipment as you incorporate it into your system.

Wireless 230V socket ("ECO-Node"), in Schuko version (left) and Swiss version (right). Such equipment may be sold as option in certain markets or packages.

In the case of a wireless 230V socket ("ECO-Node"), it consists in entering the setup, followed by the registration screen, and then plugging the ECO-Node into a power outlet. Please write down the ID number given to it at that point, as this number will be necessary e.g. for control by SMS. After this step, take the ECO-Node out of the power outlet, plug any temperature sensors and detectors into the bottom inputs, starting with input no. 1, before plugging the ECO-Node itself into the outlet again.

Wireless detectors: "WPIR" movement detector (left) and "WFire" fire/smoke detector (right). Such equipment may be sold as option in certain markets or packages.

Repeat the procedure for any remaining peripherals by following enclosed installation guides and/or the guidelines given under "REGISTER NEW DEVICE" p. 14.

3. **Specify the mobile phone numbers to which alarms and warnings are to be sent.**

Enter the setup, followed by the phone number screen. Select the blue fields to enter the phone numbers and the kinds of alarms that each number is to receive.

4. **Set the clock.**

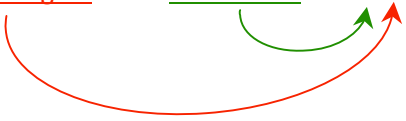
Enter the setup, followed by the clock adjustment screen. Set the date and time.

5. **Small test: Send an SMS to EcoStarter Touch to turn on the 230V socket of your ECO-Node.**
We assume that you have acquired at least one ECO-Node with your system and that it is registered as wireless peripheral **number 01** (there can be up to 64 of them!). Text of the SMS message to be sent from your mobile phone (the colours are here only to facilitate your understanding):

1234 R011

This message is made up of two parts separated by a space character (no spaces elsewhere):

1. A compulsory access code (password), which is **1234**
2. The command for turning on Node number 01 : **R011**



The command for turning off Node number 01 is: **R010**
Convention: **1** (one) for *on* and **0** (zero) for *off*.

The front LED of your ECO-Node should then change from red to green. This indicates that the 230V socket output is turned on; in other words, the Node will now admit power to the heater (or any other appliance) plugged into its socket.

6. **Change the personal code.**

Enter the alarm screen to do this.
Choose a code that you will be able to remember easily.

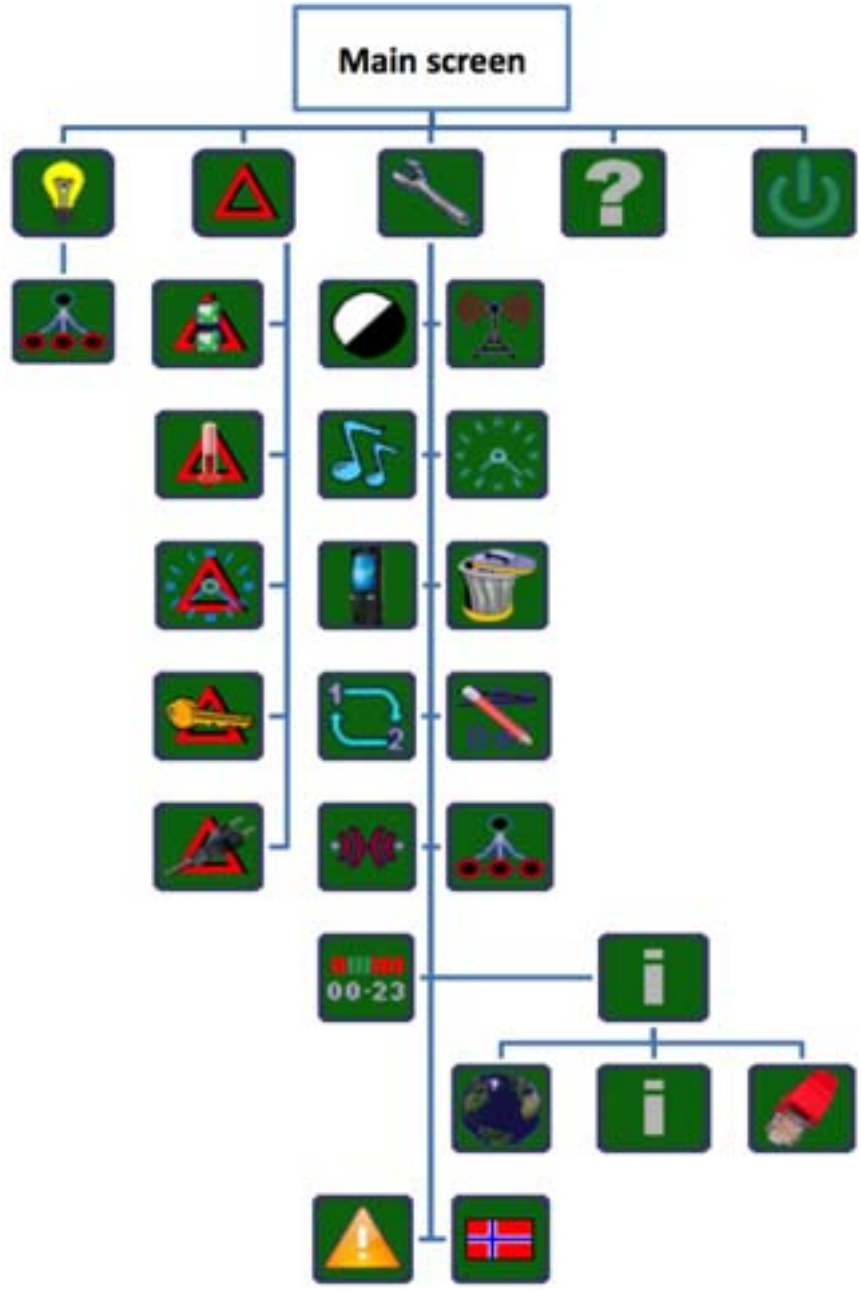
7. **Read the manual.**
Your EcoStarter Touch offers many interesting possibilities, which you will discover by reading the manual, playing with your device and checking out www.ecostarter.com for further information.

Also consult available help screens for information about current settings.

The screen of EcoStarter Touch will automatically switch off after a moment of inactivity. Simply touch the screen to turn it on again. Please note that you have to enter your personal code to access the setup and alarm screens. This code will only be requested once per interactive session; the session ends each time the screen switches off. The personal code is not required for accessing the control screens (for on/off switching).

As the software inside the unit is being constantly improved, new versions will be published. An upgrade may be required when new kinds of peripheral equipment are incorporated or when software corrections become available. It is therefore possible to upgrade the product by connecting it to an Ethernet network and activating the upgrade procedure. A network with access to Internet is needed for this. The Ethernet plug shall only be connected during upgrades.

HIERARCHY OF SCREENS



CONTROL SCREEN

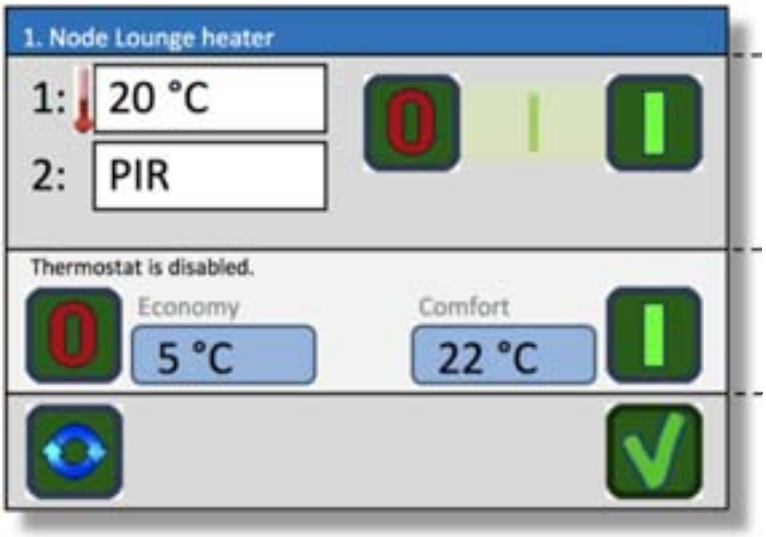
CONTROL

Through the control screen, you may operate individual wireless peripherals or entire groups. Controllable wireless peripherals are necessarily devices with on/off switching outputs (“Nodes”); detectors and similar equipment may not be configured or operated through this screen; an error message will be displayed if such an attempt is made. Currently available Node types are: “ECO-Node” (wireless 230V socket), “EGR-1” and “EGR-3” (wireless fuse-box relay modules) and “ECO SI-2” (wireless wall-mount thermostat). Use the up and down arrows to browse through the list of registered wireless devices.

TOGGLE BETWEEN INDIVIDUAL AND GROUP CONTROL

The group icon leads to a screen that enables operating whole groups of peripherals, to make them switch between off (or economy temperature) and on (or comfort temperature). Groups are not created or modified here, but via the setup screen. Please note that thermostatic regulation parameters (desired room temperatures) are set by entering the individual control screen of each relevant device (temperatures cannot be set globally for a group).

The image below shows a sample control screen for operating a Node (wireless socket) that in turn controls a heater.



Number and name of Node.

Status of Node: The field between the on (green '1') and off (red '0') buttons indicates the state of the output. Fields '1:' and '2:' show the inputs. Here, a temperature sensor and a PIR detector.

Activation/deactivation of thermostat.
Set desired economy and comfort temperatures.

Left icon: Update screen
Right icon: Leave this screen

The heater may be switched on and off by touching the green '1' and the red '0' icons in the upper right corner. Fields '1:' and '2:' in the upper left corner indicate that a temperature sensor is connected to input #1 and a PIR detector to input #2 of the given Node.

Middle of the screen: the red '0' and the green '1' icons are used to deactivate, resp. activate thermostatic control by the Node. When thermostatic regulation is active, use icons '0' and '1' in the upper left corner to toggle between economy, resp. comfort modes. The current mode will also be indicated textually. Adjust the desired temperatures by touching the respective temperature fields.

On page 26 you will find an introduction to manual control vs. thermostatic regulation.

MAIN ALARM SCREEN

ALARM

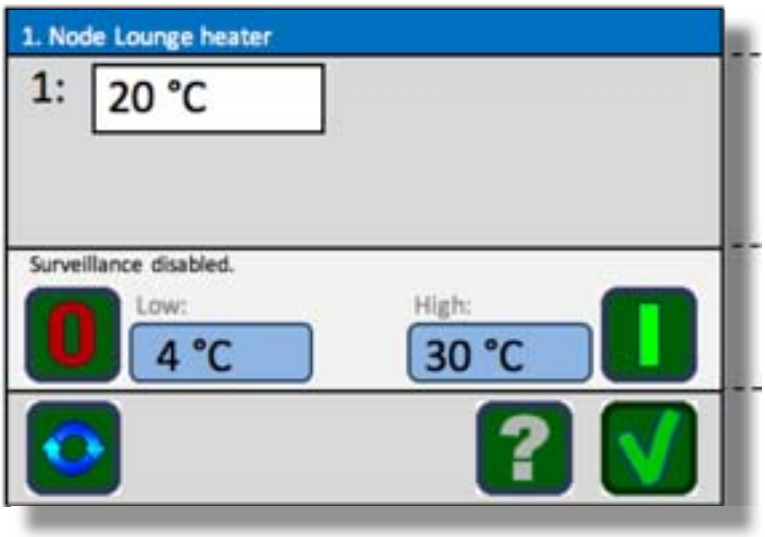
All alarms and warnings are controlled through this screen. The personal code is requested when entering this screen. Two check boxes indicate whether burglary (i.e. magnet and PIR detectors) and other kinds of alarms are currently active. The category of "other alarms" should under normal circumstances always remain activated: temperature, power outage, fire, gas, water, etc. Simply touch the check box to toggle the activation of the relevant kind of alarm. Activation is indicated by a tick mark inside the check box.

ALARM DELAYS

All wireless peripherals and all of their inputs may follow a delay before activation. Choose the wireless peripheral and activate or deactivate the delay for each of the inputs. A *delay* is a timeout running from the triggering of a detector until the alarm message is actually sent off. This is valuable for cancelling an alarm triggered by mistake, and concerns first and foremost burglary alarms, but is also be usable with other kinds of alarms. During the delay, an alarm may be cancelled with the small wireless remote control or on the screen of EcoStarter Touch. Please refer to the chapter dedicated to alarms.

TEMPERATURE SURVEILLANCE

All wireless peripherals equipped with a temperature sensor may be set to monitor the ambient temperature and send a warning whenever a higher or a lower limit is exceeded. Wherever there are several inputs, the monitoring sensor is the one connected to input #1.



Number and name of Node.

Information on connected temperature sensor. Only input #1 will be shown even if there are more inputs.

Activate/deactivate temperature surveillance. Set lower and upper limits.

Left icon: Update screen.
Middle right: Help on temperature surveillance.
Rightmost icon: Leave this screen.

ADJUST ALARM DELAYS

Adjust the delay before sending an alarm, i.e. the timeout after the alarm is triggered until it is sent off. This is relevant to all kinds of alarms.
Also adjust the delay until an alarm is active, i.e. the time running from the moment you activate an alarm until it really is ready and active. This is only relevant to burglary alarms (i.e. those triggered by magnets and PIR detectors).

NEW PERSONAL CODE

This is where you change your personal code.

POWER AND BATTERY WARNINGS

Enter the number of minutes power outages shall be ignored before a warning is sent off. Short power surges will then be ignored.
The battery warning, when enabled, is sent off just before EcoStarter Touch shuts down after a power outage so long that the battery is practically drained.

MAIN SETUP SCREEN

SETUP

The setup of EcoStarter Touch takes place through this screen. Registration, naming, storing GSM numbers, and much more may be changed here.

CONTRAST AND BRIGHTNESS

Adjust contrast and brightness of the built-in screen.

REGISTER NEW DEVICE

Activate the registration procedure for a device. This is to ensure that EcoStarter Touch will recognize a given wireless peripheral. Follow instructions on the screen.

- ECO-Node: plug the wireless socket **without** any temperature sensors or detectors into an outlet. After successful registration, you must take the Node out of the power outlet while plugging into the bottom inputs any temperature sensors (starting with input no. 1) and detectors.
- ECO-Siren Node: plug the wireless socket into an outlet.
- ECO-WPIR (wireless PIR/movement detector): install batteries into the detector.
- ECO-WFIRE (wireless smoke/fire detector): install a battery into the detector. Then press the test button of the detector for 5-10 seconds.
- ECO-WKEY (wireless remote control): press keys **S** and **A** together, maintain depressed during 2 seconds and release.
- EGR1/EGR3: power on the module.
- ECO SI-2 (wall-mount thermostat): flip the switch to position on.

NB: It is important to write down the "node number" assigned to each wireless peripheral during registration. It is required when operating the system by SMS.

SOUND

Turn on/off the audible touch response of EcoStarter.
Turn on/off other feedback sounds (for alarms and for start-up/shut-down).

CLOCK ADJUST

Adjust the clock by touching the appropriate fields. The new value will become current at the push on the OK icon. Only enter the two last digits of the current year. Daylight saving time (summer/winter time) does not get automatically adapted.

SETUP GSM NUMBERS AND ALARMS

Store up to 8 different receivers of SMS warning/alarm messages.
Activate a different set of alarm types for each phone number (1 to 8).
Available alarm types:

1. Burglar
2. Fire
3. Temperature
4. Power
5. Other

DELETE

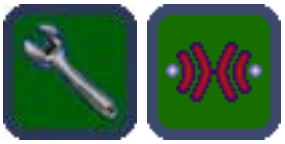
Select the registered wireless devices that are to be removed from the system.

SWAP POSITIONS OF WIRELESS DEVICES

It is good to arrange for wireless devices to occupy positions depending on the frequency of their use (1-64). Devices that are switched on/off ("nodes") should reside at the beginning of the list, whereas detectors should occupy the higher positions.

RENAME DEVICE

Give a new name to some wireless device.



PING DEVICE

Test the radio communication with selected wireless device, e.g. to determine the radio coverage. Please note that battery-powered devices cannot be tested this way.

GROUP SETUP

Wireless equipment may be grouped together to simplify their control. 5 groups are available to this end. With group control, all members of a given group may be set to on/comfort or to off/eco-temperature just with a single command or touch of the finger.

Possibilities offered at group setup:

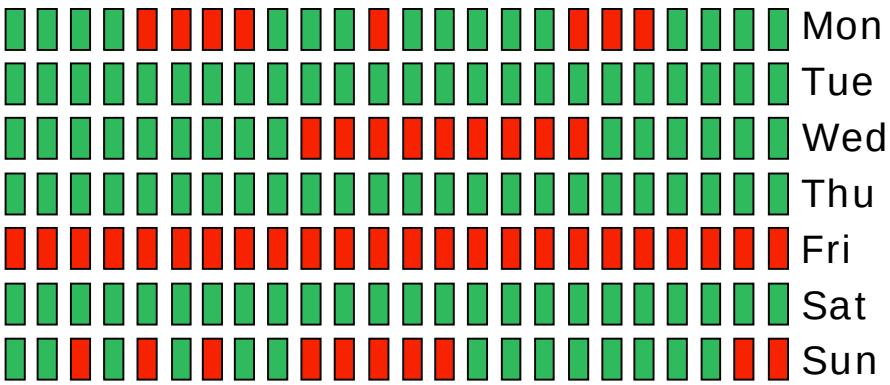
- Give a name to a selected or new group.
- Specify which devices ("nodes") shall become members of the group. Up to 8 members.
- Delete group.
- Remove a device from a given group.
- Help.

TIMER (WEEKLY PROGRAM) SETUP

Define up to 5 weekly programs where each day and each hour may be set to off/eco or on/comfort temperature. This enables setting lower "eco" temperatures at night for energy conservation, and comfort temperatures during daytime. A condensed form of the weekly program is shown on the screen. Red means off or eco whereas green means on or comfort.

For each weekly program you may:

- Select member (a device or group 1-5)
- Select the day to be set up.
- Activate/deactivate the timer.
- Clear selected timer.



UPGRADE AND SYSTEM INFORMATION

This screen leads to system setup and maintenance activities.

Software upgrade

The upgrade process will download a new version of the internal software for EcoStarter. Requires an Ethernet cable to be connected.

System information

Provides specialist information about registered devices.

TCP/IP settings

TCP/IP settings needed for software upgrade may be set automatically (by DHCP) or manually.

SOFTWARE INFORMATION

Shows system error messages. This is for the support department of Sikom AS.

S	source of error
R	specific error
T	error type
N	total number of errors

Displays the most recently received messages by EcoStarter.

LANGUAGE SELECTION

Select the language to be used on the screen and in SMS messages (status and alarm messages) sent out by EcoStarter Touch. Available languages: English, Norwegian, German, French and Swedish.

SMS CONTROL

EcoStarter Touch may be operated by means of SMS messages sent from an ordinary mobile phone. Such SMS commands must follow the principles described below. Every message must start with a 4-digit personal code.

Each command consists of a single-letter keyword followed by parameters, where the most frequent are **1** for ON and **0** for OFF. Commands are not case sensitive, i.e. **S** is the same as **s**.

The examples are surrounded by quotes (" "). These quotes shall **not** be written in the message. 1234 is the personal code used in the following examples.

Several commands may be combined inside a single SMS message (the personal code shall then only appear once, at the very beginning).

Do the following to send an SMS command to EcoStarter Touch:

1. Open the messaging application of your mobile phone and create a new message.
2. Write the personal code.
3. Write your command(s).
4. Send the message to the mobile phone number corresponding to the SIM card inside EcoStarter Touch.

SMS COMMANDS FOR ALARMS AND WARNINGS

"A" - BURGLAR ALARM

Switches burglar alarm on or off.
Parameter: **0** for OFF or **1** for ON
Examples:
"1234 A0" Turns burglar alarms OFF.
"1234 A1" Turns burglar alarms ON.

"B" – OTHER ALARMS

Switches all other alarm types on or off.
Parameter: **0** for OFF or **1** for ON
Examples:
"1234 B0" Turns other alarms OFF.
"1234 B1" Turns other alarms OFF.

"Myabcde" – ALARM TYPES TO BE SENT

Activates a set of alarm types for a given phone number.
Parameters: **y** is the position (1 to 8) of the relevant phone number.
abcde is the set of alarm types that are to be sent to the given phone number:
a = Burglar alarm
b = Fire alarm
c = Temperature alarm
d = Power alarm
e = Alle other alarms
Within parameter **abcde** write for each alarm type either **0** for OFF or **1** for ON.
Examples:
"1234 M110010" Alarms sent to phone number at position 1: burglar and power issues
"1234 M401100" Alarms sent to phone number at position 4: fire and temperature

"T" – LIMITS FOR TEMPERATURE SURVEILLANCE

Some wireless peripherals of EcoStarter Touch are able to monitor temperatures. A message will be sent if the temperature exceeds one of the set limits.
Please remember that, after receiving an SMS with alarm "Temperature LOW" or "Temperature HIGH", temperature surveillance has to be reactivated for the relevant node.
Temperatures cannot be measured below -29°C or above +49°C.
Temperature surveillance requires a temperature sensor to be connected to the node; in the case of a wireless socket, the sensor must be plugged into intput no 1.

NB: Always write temperatures with a sign (+ or -) followed by a 2-digits value: +03 -08 +20 etc.

Parameters: 2 first digits: Node number (always 2 digits, e.g.: 01, 03 and 15).
Next 6 characters: lower and upper limits.

Example:

"1234 T02+04+24" Sets temperature surveillance limits for node number 02 with +4°C and +24°C as lower, respectively upper limits.

"Y" – ACTIVATE TEMPERATURE SURVEILLANCE

Activates temperature surveillance within the limits set with command **T**.

Parameters:

First 2 digits: Node number (always 2 digits, e.g. 02).
Third digit: **0** to deactivate surveillance, **1** to activate surveillance.

Examples:

"1234 Y021" Activates surveillance on node number 02.
"1234 Y020" Deactivates surveillance on node number 02.
"1234 Y021S02" Activates surveillance on node number 02 and then requests a status message for verifying that the limits have really been set and surveillance activated.

"K" – BATTERY WARNING

If requested, the message "Battery!" will be sent whenever the internal battery of EcoStarter Touch is nearly empty. The unit will automatically turn itself off when a certain lower level is reached. It will start up again as soon as the power is restored.

Parameter: **0** for OFF or **1** for ON

Examples:

"1234 K1" Activate battery warnings.
"1234 K0" Deactivate battery warnings.

"D" – POWER OUTAGE WARNING

If requested, EcoStarter Touch will send the message "230V Fault" each time a power outage lasts more than a configurable number of minutes. The message "230V OK" will be sent when the power is restored.

Parameter: **0** for OFF or **1** for ON

Examples:

"1234 D1" Activates power outage warnings.
"1234 D0" Deactivates power outage warnings.

"N" - REGISTRATION OF MOBILE PHONE NUMBERS

Register a mobile phone number that is to receive various types of alarms (command "Myabcde" is for selecting exactly which types of alarms are to be received by which phone numbers). Up to 8 numbers may be stored.

Parameters:

First digit = position (1-8) where the phone number shall be stored.
The rest: phone number, possibly with country code (+NN), and always terminated by a sharp sign ("**#**").

Examples:

"1234 N1+4748054555#" Stores phone number +4748054555 (with country code +47) at position 1.
"1234 N348054555#" Stores phone number 48054555 at position 3.
"1234 N3-" Erases the phone number stored at position 3.

SMS COMMANDS FOR CONTROL (switching relays/nodes on and off)

"R" - CONTROL

Switches a node (01-64) on/off or between comfort/eco.

Parameters:

First two digits: node number (always 2 digits).
Third digit: **0** for OFF or **1** for ON (when in manual mode)
or **0** for eco or **1** for comfort (when in thermostatic regulation mode)

NB: If thermostatic regulation is active on the given node, then parameter **0** sets it into **eco** mode and **1** into **comfort** mode. On page 26 you will find explanations concerning manual control vs. thermostatic regulation.

Examples:

"1234 R011" Turns on node no 01.
"1234 R250" Turns off node no 25.
If you want a confirmation that the command really was executed, ask for a status message:
"1234 R011 S01" Turns on node 01 and then requests a status message from it.

NB: The status request **S** must come after the control command **R** in the text message in order to obtain the new state *after* execution of the control command.

"G" – GROUP CONTROL

Switches a group (1-5) on/off (or between comfort/eco for group members that are in thermostatic regulation).

Parameters:

First digit: group number (1-5)
2nd digit: **0** for OFF/eco or **1** for ON/comfort

NB: group members that are in thermostatic regulation mode will be toggled between eco and comfort.

Examples:

"1234 G11" Switch on (or set into comfort-temperature) all members of group 1.
"1234 G50" Switch off (or set into eco-temperature) all members of group 5.

"S" – STATUS MESSAGE

Requests from EcoStarter Touch all information about a given node (01-64): name, temperatures, detectors, surveillance modes, etc. This information is sent back as an SMS message to the mobile phone the request came from. Several nodes may be included in a single request.

Parameters:

2 digits: Node (01-64) from which the status is wanted

Examples:

"1234 S06"	Requests status of node 06.
"1234 S12"	Requests status of node 12.
"1234 S01 S02 S03"	Requests status of node 01, 02 and 03.

EcoStarter Touch will send one SMS message per requested node (individual text messages cannot contain more information than that). The third example above will thus generate three messages.

NB: The status message will contain different information depending on the type of the node.
Sample reply from EcoStarter Touch:

6 Node. Bedroom heater.
Input 1 25C. Output is OFF.
Thermostat comfort 24c.
Surveillance active 5c / 30c.

Explanations:

6 Node	This status message concerns node number 06.
Bedroom heater	Name of this node.
Input 1 25C	A temperature sensor is connected to input 1, and it measures 25°C degrees.
Output is OFF	The node is switched **OFF** at the moment, i.e. no current is allowed out of its 230V socket right now.
Thermostat comfort 24c	Thermostatic regulation is active with **comfort=24°C** as target temperature.
Surveillance active 5c / 30c	Temperature surveillance is active, with limits at 5°C and 30°C.

Here, the lower temperature surveillance limit is 5°C and the upper limit 30°C: if the temperature falls down below 5°C, or exceeds 30°C, a temperature alarm will be sent off. The chosen limits may be changed by SMS, and they may even be different from one node to another.

The output is turned off at the moment, because, when the node is in thermostatic regulation mode, the point is to cut the heating whenever the ambient temperature (25°C) is higher than or equal to the set target temperature (24°C).

NB: Remember that temperature surveillance is deactivated whenever such an alarm is triggered. The surveillance has to be reactivated once the temperature issue has been solved.

"L" – TARGET TEMPERATURES FOR THERMOSTATIC REGULATION

Nodes may be set to carry out thermostatic regulation to automatically obtain one of the given (eco or comfort) target temperatures in the room. Thermostatic regulation requires a temperature sensor to be connected to the node; in the case of a wireless socket, the sensor must be plugged into intput no 1.
Command "**L**" stores new target temperatures, but does not activate the regulation: use command "**J**" to that end.

Parameters:

First 2 digits: Node (01-64).
Next 6 characters: Target eco- and then comfort temperatures.

NB: Always write temperatures with a sign (+ or -) followed by a 2-digits value: +03 -08 +20 etc.

Example:

"1234 L02+04+24" Thermostat of node no 02 is set with target eco-temperature at +4°C and target comfort temperature at +24°C.

"J" – ACTIVATE THERMOSTATIC CONTROL

Activates thermostatic control on a given node, using the target temperatures set with command "**L**". When thermostatic regulation is active, use command "**R**" to switch between eco and comfort target temperatures. When thermostatic regulation is deactivated, the node returns to the usual on/off control.

Parameters:

First 2 digits: Node (01-64).
Third digit: **0** to deactivate thermostatic regulation, or **1** to activate it.

Examples:

"1234 J021 R021" Thermostat of node no 02 is activated and then set into comfort mode.
"1234 J020" Thermostat of node no 02 is deactivated.

"W" – EAVESDROP

EcoStarter Touch contains a microphone which enables the owner to eavesdrop on activity around the unit. On receiving this command, EcoStarter Touch will call the phone from which the command was sent and enable eavesdropping during approx. 1 minute.

Example:

"1234 W" Requests EcoStarter Touch to call the originator to enable eavesdropping.

ADVANCED SMS COMMANDS

"H" – HELP

Use "**H**" to request help for a specific command.

Parameter:

One letter: the command for which help is requested.

Examples:

"1234 HR" Requests help for command "R" (controlling a node).
"1234 HD" Requests help for command "D" (power outage warnings).

"C" – CHANGE PERSONAL ACCESS CODE

Changes the personal code to a new one. "1234" is the factory-set code.

Parameter: 4 digits: the new code.

Examples:

"1234 C4321" Changes the code from 1234 to 4321.
"1234 C9999" Changes the code from 1234 to 9999.

NB! Remember the new code, and use this code each time you send a message to EcoStarter Touch, or control it on-site with the small wireless remote control or interact through the touchscreen.

"I" - INFO

Returns various status messages from EcoStarter Touch.

Parameters:

1 digit: **1** = list of phone numbers stored at positions 1-8.
2 = for each phone number, the list of alarm types that will be sent to it.
3 = which alarm types are on or off.
4 = names of wireless devices registered with EcoStarter Touch
5 = names of available groups

Examples:

"1234 I1" Requests info message 1, about stored phone numbers.
An SMS similar to the following will shortly be received from EcoStarter Touch:
1:+4748054555 2: 3: 4: 5: 6: 7: 8:
This means that only position 1 contains a number, none of the other positions do.

"1234 I2" Requests info message 2, about which alarm types are received by which numbers.
An SMS similar to the following will shortly be received from EcoStarter Touch:
Burglar Fire Temperature Power Other.
1. 11111 2. 10011 3. 00000
4. 00000 5. 00000 6. 00000
7. 00000 8. 00000

This message first recalls the order of listed alarm types. Then, it tells that phone number 1 receives all alarm types, whereas phone number 2 receives *burglar*, *power* and *other* alarm types. The remaining numbers do not receive any alarms.

"1234 I3" Requests info message 3. an overview of which alarms are on or off.
An SMS similar to the following will shortly be received from EcoStarter Touch:
Burglar alarm is ON (or OFF)
Other alarms are ON (or OFF)

"1234 I4*x*" Requests a list of registered devices.
Parameter ***x*** takes a value 1-8 and determines which set of 8 consecutive devices will be listed: value **1** for devices 1 to 8, value **2** for devices 9 to 16, etc.
Following the command **"1234 I41"**, an SMS similar to the following will shortly be received from EcoStarter Touch:
1. Hall 2. Living room 3. 4. 5. 6. 7. 8.
This message tells that node no 1 is "Hall", node no 2 is "Living room". More nodes may be registered, but only nodes 1 and 2 have a name.

"1234 I5" Requests the list of groups defined on EcoStarter Touch.
An SMS similar to the following will shortly be received from EcoStarter Touch:
Group list. 1. First floor 2. 2nd floor 3. 4. 5.
This message tells that group no 1 is "First floor", group no 2 "2nd floor". More groups may have been defined, but only groups 1 and 2 have a name.

"Q" – VARIOUS SETTINGS

Command **Q** enables changing various settings per SMS.

Q1xxzzzz# Changes name of node (01-64); max 16 characters, terminated by a "#".
NB: many accent characters do not get through in SMS messages.

Example:
"1234 Q103Hall#" Renames node 03 to "Hall".

Q2xzzzz# Changes name of group (1-5); max 16 characters, terminated by a "#".
NB: many accent characters do not get through in SMS messages.

Example:
"1234 Q25Bedroom#" Renames group 5 to "Bedroom".

Q3tdoooooooooooooooooooooo = Changes value of timer (weekly program).
Parameters: t: timer (1-5), i.e. the number of the selected weekly program.
d: day (1-7), i.e. day of the week, Monday (**1**) to Sunday (**7**).
o: 24 digits (one per hour of the day), **0** for OFF or **1** for ON.

Example:
"1234 Q3250000000111110000000111100" Changes the on/off schedule on Fridays in weekly program no 2 as follows: OFF from hour 00 to 07, from 12 to 18 and from 22 to 24, and ON from 07 to 12 and from 18 to 22.

"P" - CLOCK

Parameters:
Either **0** to read the clock (return its current value by SMS)
or **1hhmmddaayy** to set the clock
hh: hour, 2 digits
mm: minutes, 2 digits
dd: day of the month, 2 digits
aa: month, 2 digits
yy: year, 2 digits

Example:
"1234 P11822030610" Sets the clock to 18:22 03/06-2010.

"!" - COMMENT

Any text following a "!" in an SMS message will be considered as comments and therefore not executed by EcoStarter Touch. This is valuable for explaining the purpose of SMS commands stored in the memory of your mobile phone, in order to facilitate their reuse. You may thus easier set up command templates.

Example:
"1234 R011 !turn OFF hall heating" The comment says "turn OFF hall heating".

INTERNET

EcoStarter Touch may also be controlled on the Internet. Please follow news on the www.ecostarter.com website for relevant information about this.

WEEKLY PROGRAM AND GROUPING

With its weekly program and grouping features, the system can easily be set up to reduce heating at night in order to save energy. The weekly program may control single devices or entire groups.

The weekly program is programmed hour by hour for a whole week. Up to 5 different weekly programs may be defined. This allows you to have a different heating pattern for when you are away. A lighting schedule may also be set up in another weekly program to simulate a presence during these periods.

EcoStarter Touch provides a grouping feature for organizing its wireless peripherals. This simplifies the management of different heating zones both when operating per SMS and via the touchscreen. Up to 5 groups are available, each with up to 8 members.

The weekly program takes care of switching devices on/off or between comfort/eco. Each wireless device is configured individually to either follow the simple on/off operation or to perform thermostatic regulation (and hence to toggle between comfort and eco-temperatures instead of being switched entirely on and off by the weekly program). Most Nodes (wireless peripherals with remote-controlled outputs) may function both ways, except thermostat “ECO SI-2”, which only follows the thermostatic regulation mode.

By combining the weekly program and the grouping features, the following scenario may be put into effect: 2 electric heaters are driven by “ECO-Node” wireless sockets, and 2 floor-heating circuits by “ECO SI-2” thermostats. These 4 devices are brought together as a named group. A weekly program is configured to control this group. All 4 devices will then be automatically regulated by this weekly program to arrange for comfort temperatures when the residents are there, and for eco-temperatures at night and when they are away at work.

Weekly programs may be temporarily superseded by a simple control command, and then come into force again at the next scheduled change. To supersede a weekly program over a longer period, it must be explicitly deactivated.

It is also sometimes possible to integrate a central heating, like a heat pump, in an EcoStarter Touch system. Some manufacturers propose electronic interface equipment to this end.

NB: Please ensure that the clock is set correctly to enable the weekly program execute on time.

THERMOSTATIC REGULATION

In order to bring you an optimal control over ambient temperatures, Ecostarter Touch is capable of accurately operating various kinds of heating systems by superseding their built-in thermostat. This essentially concerns direct electric heating systems (electric convectors, floor heating, infrared heaters). Thermostatic regulation of other heating systems is often possible, but has to be examined on a case-by-case basis. Thermostatic regulation is a feature supported by all wireless "Node" extensions of EcoStarter Touch: 230V socket "ECO-Node", fuse box modules "EGR-1" and "EGR-3", as well as the wall thermostat "ECO SI-2".

In concrete terms, the 230V output of a wireless "ECO-Node" socket is always in either of the two following modes, illustrated in the figure below with the corresponding SMS commands:

- **Manual on / off control** for turning on and off lamps, pumps, computers, etc. If a heater is turned on this way, it's the heater's internal thermostat that determines the scheduled temperature.
- **Thermostatic regulation** for managing precisely the ambient temperature produced by a heating appliance such as a convector heater. The Node is then a substitute to the heater's own thermostat (which should be left on the highest available position). You can set the scheduled temperatures by SMS or via the touchscreen of EcoStarter Touch.

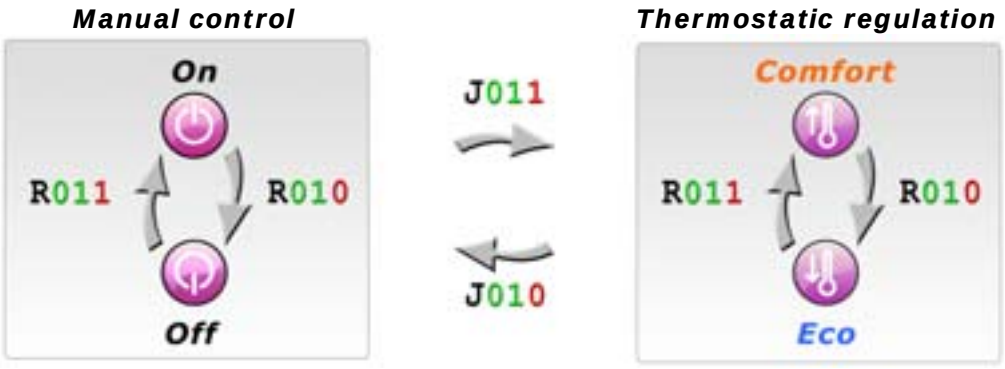
  You can store two different target temperatures on each Node: the lower "eco-temperature" (for the night and during your absences) and the higher "comfort temperature" (for the days when the premises are occupied).

  E.g., with the following SMS, you store on Node number **01** an "**eco-temperature**" at +6°C and a "**comfort temperature**" at +20°C (command **L**), and then you **activate** thermostatic regulation (command **J**):

  1234 L01+06+20 J011

  NB: in SMS messages, temperatures are always written with a '+' or '-' sign followed by two digits (e.g., +06 for +6°C). "1234" is the standard password.

  Once a Node is in thermostatic regulation mode, you will simply switch between the stored "eco" and "comfort" target temperatures by means of the on/off command **R** (or with the collective command **G** if the Node is member of a group).



SMS commands for manual on/off and for switching between comfort/eco temperatures.

How does thermostatic regulation work?

The Node arranges for the desired ambient temperature by turning the heater on until that temperature is attained. When this is achieved, the Node turns off the heater. As soon as the ambient temperature falls by at least one degree Celsius (e.g., below 19°C when the target temperature is 20°C), the Node will turn the heater on again, until the temperature reaches the desired value one more time. This cycle repeats ad infinitum. During this activity, the output of the Node will frequently toggle between *on* and *off* and vice-versa.

ALARMS AND WARNINGS

EcoStarter Touch is able to distinguish between many different kinds of alarms and warnings. On the main alarm screen, there is a distinction between two main types:

Burglar Alarms triggered by magnet detectors, PIR (movement) detectors and a generic type.
Other alarms All other alarm or warning types that may occur.

The burglar alarm may be switched on and off either on the touchscreen of EcoStarter Touch, by SMS or with the small wireless remote control. Adjustments are possible both for the delay before sending an alarm and the delay until an alarm is active. Please note that wireless equipment will send any triggered alarm only once and then wait for 10 minutes before detecting again. This means that it may take up to 10 minutes until an alarm is active after being turned on. The delay before sending an alarm is the time in seconds after the alarm is triggered until the alarm is actually sent off. This is useful if detectors are triggered before you have a chance to switch alarms off. During this configurable delay, the burglar alarm may be switched off via the touchscreen of EcoStarter Touch, with the wireless remote control or by SMS. The alarm message will then be cancelled and the burglar alarm switched off. The same possibility exists for the other alarm types, although it may not be so useful. However, there is one difference: the other alarm types will not be switched off when cancelled. The only way to switch these alarm types off is through the alarm screen of EcoStarter Touch or by SMS.

For wireless equipment, the alarm screen offers the possibility to select which detector inputs are to have delays. E.g., a WPIR (wireless movement detector) may have a delay, whereas a WFire (wireless smoke/fire detector) does not need this. Temperature surveillance may also be subjected to this delay, if needed. For the sake of simplicity, it is recommended to have delays only with burglar detectors.

It is possible to further configure the handling of alarms by specifying which alarm types are to be sent to each registered phone number. EcoStarter Touch distinguishes between 5 alarm types here:

Burglar:	PIR (movement) detector.
	Magnet (door/window opening) detector.
	Generic burglar detector.
Fire:	Fire/smoke detector.
Temperature:	Temperature High.
	Temperature Low.
	Generic temperature.
	Overheating warning (inside a wireless peripheral).
Power:	230V Fail
	230V OK
	12V Fail.
	12V OK.
	Battery LOW (inside EcoStarter Touch central unit).
	Battery LOW (inside a wireless peripheral).
Other:	Water detector.
	Gas detector.
	Generic detector type.
	Clock alarms.

If any wireless sirens are integrated into the system, they will be triggered by the following alarm types: **Burglar types, Fire alarm,** and **Gas alarm.**

A siren will resound for 10 minutes. It may be turned off by switching burglar alarms off. Fire detectors have their own built-in sirens which function the usual way.

ACCESSORIES AND OPTIONAL EQUIPMENT

DO-IT-YOURSELF EQUIPMENT

ECO-Node: Wireless 230V socket

The wireless 230V socket can switch on/off 230V loads of up to 3600 Watts (Schuko version) or 2300 Watts (Swiss version). It also has 2 inputs into which temperature sensors and detectors (movement, magnet, fire, gas, water, etc.) may be plugged. It has a LED, which indicates if the 230V socket is on (green) or off (red).

ECO-WKey: Wireless remote control

This small RF remote is used on-site to switch the burglar alarm on and off, as follows. When pressing the 'A' key, the LED in the upper right corner will blink red if the burglar alarm is on (for "no trespassing") or green if it is off (for "open entry"). After the LED has stopped blinking, the alarm activation mode may be toggled by entering the personal code on the remote control.

The remote control is also used to toggle "nodes" from off to on or vice-versa by pressing the 'S' key and then the number of the relevant node. If the node is in thermostatic regulation mode, this action will make the node toggle between eco and comfort or vice-versa. The LED will then blink red if the new state of the node is "off" or "eco" and green if its new state is "on" or "comfort".

ECO-WFire: Wireless fire/smoke detector

The wireless fire/smoke detector communicates directly with the central unit EcoStarter Touch. Whenever it is triggered, EcoStarter Touch will send off an alarm message (provided it has been set up to do this). The siren inside the detector will immediately resound, as well as any registered wireless ECO-Sirens.

ECO-WPIR: Wireless movement detector

The wireless movement detector communicates directly with the central unit EcoStarter Touch. Whenever it is triggered, EcoStarter Touch will send off an alarm message (provided it has been set up to do this). All registered wireless ECO-Sirens will also immediately resound.

ECO-Siren: Wireless siren socket

The wireless siren features a siren and a 230V socket that will automatically switch on any appliance plugged into it, such as extra powerful sirens or floodlights (up to 3600 Watts in the Schuko version and 2300 Watts in the Swiss version), whenever the alarm is triggered.

FIXED INSTALLATION EQUIPMENT

EGR-1: Wireless relay module

The purpose of EGR-1 is to switch electric circuits on/off in the fuse box. It has one potential-free relay (max load 16A) to this end.
EGR-1 also features 3 inputs, of which 2 may be used simultaneously. One of the inputs is for a temperature sensor, whereas the two other are for detectors (fire, water, gas, burglar, movement, magnet, etc).
EGR-1 is able to function as a programmable thermostat when a temperature sensor is connected to it. Eco/comfort target temperatures may be stored by the user, and thermostatic regulation conveniently shifted between those two preset values. EGR-1 may also be set to perform temperature surveillance, and trigger an alarm when necessary.

EGR-3: Wireless triple relay module

The purpose of EGR-3 is to switch electric circuits on/off in the fuse box. It has three potential-free relays (max load 16A) to this end, and three LEDs to indicate when the respective relays are active.
EGR-3 has inputs for up to 3 temperature sensors, for reading off temperatures and for temperature surveillance. EGR-3 is also able to function as a programmable thermostat when temperature sensors are connected to it. Different eco/comfort target temperatures may be stored by the user on all three relays, and thermostatic regulation conveniently shifted between those preset values.
It is also possible to activate a pulse control mode on all relay outputs for equipment that should require this.

ECO SI-2: Wireless wall-mount thermostat

The purpose of SI-2 is to switch electric circuits on/off under the control of the built-in thermostat. Eco and comfort target temperatures may be stored by the user, and thermostatic regulation conveniently shifted between those two preset values. SI-2 has one double pole 16A relay (but it is recommended to add a contactor for loads above 10A, and an auxiliary relay is compulsory for controlling anything else than 230V circuits).
SI-2 comes with a temperature sensor that may be laid out in the room or in the floor. SI-2 displays the current temperature and has buttons for adjusting the temperature on site.

FAQ

ERROR MESSAGES

Clock alarms:

Three clock-related alarm types may be sent by SMS:

1. Hardware error: The clock cannot be read. This may occur at startup.
2. EcoStarter Touch will generate an SMS alarm if the clock circuit indicates a fault at startup. A removed or almost discharged battery may cause this.
   E.g.: **Alarm! EcoStarter Touch. Clock startup. Please set clock.**
3. The clock circuit might also discover a failure during normal operation and then send a warning by SMS. A possible consequence is that the clock will not be able to fully keep up with the time.

Timeout during communication with wireless devices:

If communication is attempted with battery-driven wireless devices, such as wireless fire or burglar detectors, no information will be obtained from them. This is completely normal behaviour. A timeout message will then appear on the screen.
There may also be noise or interferences on the local radio communication frequency. Please try again in case of error. The coverage of the radio communication may be tested by taking down the central unit from the wall and using the “Ping” function of the Setup screen while moving around to determine within which boundaries the communication is possible.

Below you will find other ways of solving possible issues:

Problem solving

1. Check the power supply of your wireless devices.
2. Power off and on, and try once again the operation that failed.

RESET AND CALIBRATION

If you should forget your personal code or want to reset EcoStarter Touch to its factory settings, you will want to execute the following reinitialization procedure. First turn off the unit, through one of these two methods:

- If you still know the personal code, press the “power” icon on the screen (you will be asked to enter the code to allow this) and then unplug the power supply.
- Otherwise, take out the battery and unplug the power supply. Plug the battery in again.

Then press the upper right corner of the screen when powering on again. This will erase all settings and codes. The personal code becomes 1234. All wireless equipment will have to be registered again.

The touchscreen itself may be calibrated if it does not respond as expected. Do it this way:

1. Turn off EcoStarter Touch (the normal way, with the “power” icon of the main screen).
2. Press the upper left corner of the screen.
3. Power on EcoStarter Touch (by plugging in the power supply).
4. Release the the screen after the beep and follow the instructions on the screen.

BATTERY MAINTENANCE

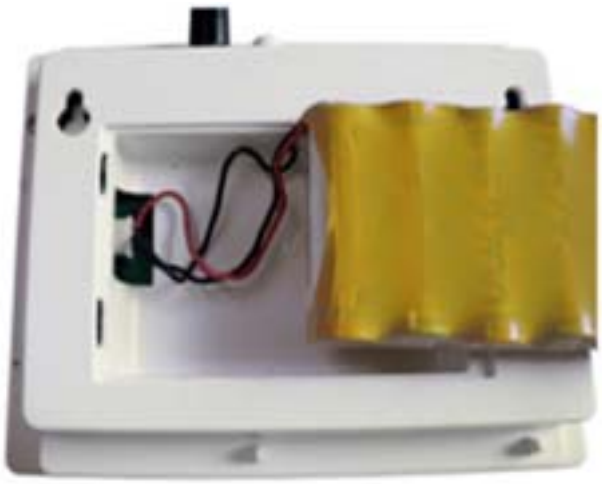
The battery should be replaced every year for optimal performance. It may easily be replaced, as follows. Take EcoStarter Touch down from the wall and unplug the power supply. Then open the cover on the backside. Extract the battery and unplug it. Replace with a new battery. Hide the battery wires inside the hole around the connector: this will make it easier to reinstall and close the cover of the battery compartment.

When new and fully charged, the battery is able to power EcoStarter Touch for 18 hours.

If the product is to be turned off for a longer period, the battery should be disconnected. Otherwise the battery will discharge itself and might cause damage to the unit. When reinstalling the battery, remember that the clock will have to be adjusted again.

CHARGING THE BATTERY

If the battery has been significantly discharged, it may take up to 24 hours to fully recharge it.



WARRANTY AND COMPLAINTS

Each Sikom A.S. product is covered by a two years warranty against any faults due to manufacturing errors, provided that the product was bought from an authorized Sikom dealer. The warranty is only valid in the country where the product was originally purchased. For information about warranty service, please contact your dealer or distributor. The warranty requires the customer to present a copy of the sales receipt for the original purchase, with place and date of purchase, as well as type of equipment clearly readable. Please attach a copy of this receipt when requesting a warranty repair.

WHAT IS COVERED BY THE WARRANTY?

The warranty protects the owner of the product against any faults due to material flaws or manufacturing errors, with the following exceptions:

1. Damage due to misfortune, unreasonable use or carelessness (including lack of reasonable and necessary cleaning).
2. External factors, such as lightning, power supply issues, mobile network issues, flood damage or fire.
3. Damages that occurred in transit (complaints are to be presented to the carrier).
4. Damage or deterioration in the surface due to failure to follow the instructions in the manual.
5. Any unauthorized repair, modification or disassembly.
6. Units with modified, removed or unreadable serial number.

This warranty only covers actual faults in the product itself, which limit or render useless certain functions described for the product, and **does not cover costs related to installing, dismantling and reinstalling the product, normal setup and adjustments**, demands based on inadequate expectations (possibly due to the seller), or faltering performance due to installation-related conditions such as sources of radio interferences or power supply issues. NB: Any repair has to be carried out by Sikom A.S. Unauthorized repair will invalidate the warranty and be at the owner's entire risk.

HOW TO OBTAIN WARRANTY SERVICE

Should your Sikom product ever require service, you may return it to your dealer. Remember to use Sikom's return form, which you will find at the end of this manual. Please fill it out, and attach a copy of the original receipt if you require warranty repair.

WHO PAYS FOR SERVICE

Sikom A.S. will cover all expenses in manpower and materials for repairs covered by this warranty. If a necessary repair is not covered by the warranty, or if Sikom does not consider a requested service as a warranty repair, the owner will have to pay for the repair work or examination. The owner shall pay for any transport costs to the dealer or directly to Sikom A.S., and Sikom will pay for an economical return if the repair is covered by the warranty.

Sikom and its dealers assume no responsibility for any errors that may appear in this manual. Information contained herein is subject to change without notice.

TECHNICAL SPECIFICATIONS

Manufacturer:	Sikom AS, Norway
Model:	EcoStarter Touch (alias *GSM ECO-Starter*)
Hardware version:	800-8300V10
GSM module:	Quad-band GSM/GPRS modem (850, 900, 1800, 1900 MHz) Output power: - Class 4 (2W) at 850 / 900MHz - Class 1 (1W) at 1800 / 1900MHz SIM-card holder: easily accessible, push/push holder.
Local radio communication:	Frequency: 433.9 MHz Output power: 10mW
Housing protection rating:	IP20
Antenna:	GSM antenna with SMA connector
Power supply:	Operating voltage: +12V /1A via power adapter (100V-240V) Consumption: Max 12W
Backup battery:	6.0V 2500mAh Ni-Mh Built-in short-circuit protection. Charging only takes place between 0-40 °C
Physical dimensions:	Height: 140 mm including the GSM antenna Width: 140 mm Depth: 40 mm Weight: 430 g
Mounting system:	Onto the wall, using 2 screws with a head diameter of 6mm.
Additional information:	Operating temperature: – 10 to +40 °C Non-operating temperature: – 20 to +40 °C Degree of humidity: < 93 % RH

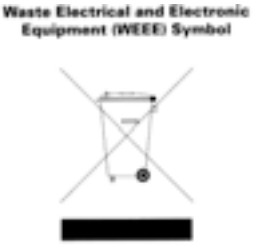
This equipment complies with the European R&TTE directive.

Further information may be obtained by contacting either the Swiss importer through www.EcoStarter.com or the manufacturer:

Sikom AS
Neptunveien 6
7650 Verdal
Norway

Internet address: www.sikom.no

RECYCLING



The WEEE (Waste Electrical and Electronic Equipment) symbol indicates that this product must not be disposed of along with other household waste. It is the customer's responsibility to dispose of the product properly by taking it to a designated site for recycling. To locate a recycling/disposal site near you, contact your local city recycling program, your regular waste disposal service or the agent from whom you purchased this product.

For Switzerland, this product includes in its purchase price a contribution (the advanced recycling fee) to the SWICO Recycling Warranty, which means that used equipment can be handed in free of charge for recycling. Collection sites are listed at http://www.swicorecycling.ch

swico Recycling-Garantie
Garantie de recyclage

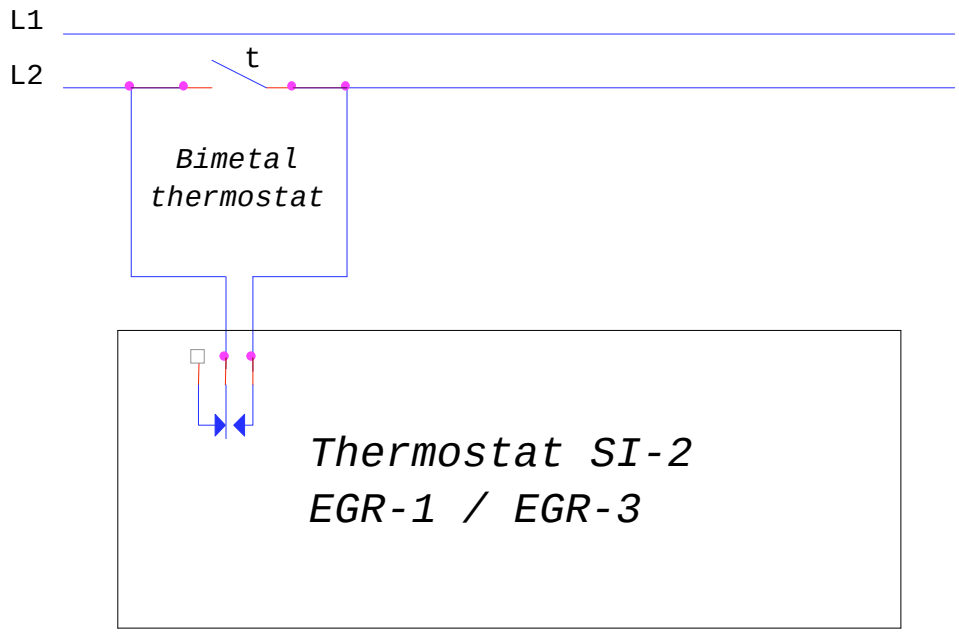
IMPORTANT INFORMATION

The thermostatic regulation offered by Sikom devices may be used to maintain a base “eco” temperature in your premises, but **must not be taken as an infallible frost protection**.

Indeed, any electronic equipment is vulnerable to power surges and other perturbations that may come from the electricity network, e.g. due to lightning. In such an event, if the electronics is damaged, it may no longer ensure the thermostatic regulation, and hence the frost protection.

Therefore, if frost protection is a critical requirement (such as around water pipes), it is recommended to add a security mechanism. These are some alternatives:

1. Use an additional heating system, with its own thermostat, to ensure frost protection in critical premises.
2. Install a protection against power surges and other perturbations from the electricity network.
3. Set up a bimetal thermostat in parallel with your Sikom unit, as shown in the following figure:



Sikom and its representatives will not assume liability for any damage due to frost!

RETURN FORM

Company name:		Contact person:	
Address:		ZIP/City	
Invoice/order number:		Client number:	
Phone:		E-mail:	

RETURN NUMBER:

Before returning a product, always ask for a return number. This will be given to you by our support department.

Request for advanced replacement unit (please tick) **Yes** ☐ **No** ☐

A copy of the receipt for the original purchase is included **Yes** ☐ **No** ☐

Warranty service requires the customer to present a copy of the sales receipt for the original purchase, with place and date of purchase, as well as type of equipment clearly readable. Please attach a copy of this receipt when requesting a warranty repair.

Return codes: (to be used in the following grid)

1. Error by seller or order recipient
2. Ordering error by customer
3. Wrong delivery from Sikom AS warehouse
4. Complaint / warranty repair
5. Other problem (please specify)
6. Return of demo equipment
7. Return of advanced replacement products

Art. number	Product name	Quantity	Return code	Reason for return

Remarks:
Reserved for Sikom AS:

Date:_____ Signature:_____

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